

**IAP9 Rec'd PCT/PTO 25 AUG 2006****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****ATTORNEY DOCKET NO. 039262-0159**

Applicant: Shigetoshi SUGAWA

Title: SOLID-STATE IMAGING DEVICE, LINE SENSOR AND  
OPTICAL SENSOR AND METHOD OF OPERATING SOLID-  
STATE IMAGING DEVICE

Appl. No.: Unassigned

Filing Date: 08/25/2006

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Appl. No. Unassigned

Atty. Dkt. No. 039262-0159

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

RELEVANCE OF EACH DOCUMENT

Documents A1 – A12 and A14 listed on the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding International application. A copy of the International Search Report is attached setting forth the portion of each document considered relevant by the examiner. English-language counterpart of the foreign-language documents has been provided where readily available. The absence of a translation or an English-language counterpart document does not relieve the PTO from its duty to consider any submitted documents (37 CFR §1.98 and MPEP §609).

Applicant respectfully requests that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

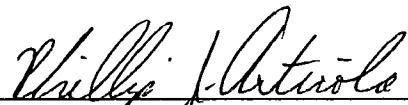
August 25, 2006

Date

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	Unassigned
Date Submitted: August 25, 2006 (use as many sheets as necessary)				Filing Date	08/25/2006
				First Named Inventor	Shigetoshi SUGAWA
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	039262-0159

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
A1	2002/0000508			MURAMATSU et al.	01-03-2002	
A2	6,486,504			GUIDASH	11-26-2002	
A3	6,680,498			GUIDASH	01-20-2004	
A4	6,690,423			NAKAMURA et al.	02-10-2004	
A5	7,042,061			NAKAMURA et al.	05-09-2006	
A6	2006/0163684			NAKAMURA et al.	07-27-2006	

## UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Application Document		Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number	Kind Code <sup>2</sup> (if known)			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
A7	JP	05-090556	A	OLYMPUS OPTICAL CO. LTD.	04-09-1993			Abst.
A8	JP	11-284166	A	ABE et al.	10-15-1999			Abst.
A9	JP	2000-165754	A	CANNON KK	06-16-2000			Abst.
A10	JP	2001-169184	A	EASTMAN KODAK CO.	06-22-2001			Abst.
A11	JP	2002-077737	A	NEC CORPORATION	03-15-2002			Abst.
A12	JP	2003-101006	A	SHARP KK	04-04-2003			Abst.
A13	JP	2003-134396	A	CANNON KK	05-09-2003			Abst.
A14	JP	2003-188367	A	TOSHIBA KK	07-04-2003			Abst.

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.						T <sup>6</sup>
	A15	INOUE et al., "A 3.25M-Pixel APS-C Size CMOS Image Sensor," IEEE, 2001 IEEE Workshop on Charge-Coupled Devices and Advanced Image Sensors, June 7-9, 2001, pp. 16-19.						
	A16	KAKUMOTO et al., "Logarithmic Conversion CMOS Image Sensor with FPN Cancellation and Integration Circuits," The Journal of The Institute of Image Information and Television Engineers, Vol. 57, No. 8, 2003, pp. 1013-1018.						
	A17	MURAMATSU et al., "A Signal-Processing CMOS Image Sensor Using A Simple Analog Operation," IEEE Journal of Solid-State Circuits, Vol. 38, No. 1, January 2003, pp. 101-106.						

Examiner Signature	/Marc Anthony Armand/	Date Considered	01/25/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.A./